Improvements to roads and drains of Maruthinagara
in ward no. 08 kodigehalli

EMB

First and Final Bill

Measurement Sheet

BRUHAT BANGALORE MAHANAGARA PALIKE

MEASUREMENT SHEET

FIRST AND FINAL BILL

Name Of Work	Improvements to roads and drains of Maruthinagara in ward no. 08 kodigehalli
Estimated Cost	Rs. 50.00 Lakhs
Job Number	008-20-000003
Head of Account	P3727 SC-SP/TSP Mukyamantrigala Nava Bengaluru Yojane
Name Of Agency	Executive Engineer, Karnataka Rural Infrastructure development Ltd,
Ref No	BBMP/EE/BTP/WO/155/2019-20
Measurements Recorded on :	30-12-2020

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate in RS.	Amount in RS.
Item No. 01		Earth work excavation by manual means in Hard soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications and as per the directions of the Engineer-in-charge of the work								
			Cum							
		Vide Total executed Quantity from premeasuremet Page no. 1 to 2						352.77		
								TOTAL 352.77		
								Quantity Limited To 352.11	189.74	66810.00
Item no.02		Providing and filling in foundation with granite / trap broken metal 100mm, and downsize and with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all leaed and lift.,, complete as per specifications and as per the directions of the Engineer-in-charge of the work								
			Cum							
		Vide Total executed Quantity from premeasuremet Page no. 3 to 4						70.55		
								TOTAL 70.55		
								Quantity Limited To 70.42	2574.74	181314.00

SUDARAPRASAD CONSULTANTS BANGALORE

Assistant Executive Engineer, R.R. Nagar Sub-division, KRIDL, BBMP, Bangalore

Contactor

PMC

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer BBMP

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Amount in RS.	
Item no.03		Providing and laying in position plain cement concrete of mix M7.5 with OPC cement @ 180 Kgs using 40mm and down size graded granite metal, corse aggregates @ 0.85 cum and fine aggregtes @ 0.58cum machine mixed, concrete laid in layers not exceeding 15 cms thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications and as per the directions of the Engineer-in-charge of the work								
			Cum							
		Vide Total executed Quantity from premeasuremet Page no. 5to6						70.55		
							TOTAL	70.55		
							Quantity Limited To	70.42	5408.12	380840.00
Item no.04		Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications and as per the directions of the Engineer-in-charge of the work								
			Sqm							
		Vide Total executed Quantity from premeasuremet Page no. 7						1543.20		
							TOTAL	1543.20		
							Quantity Limited To	1536.48	379.48	583064.00
Item no.05		Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications and as per the directions of the Engineer-in-charge of the work								
			Tonne							
		Vide Total executed Quantity from premeasuremet Page no. 8						8.47		
							TOTAL	8.47		
							Quantity Limited To	8.46	72326.98	611887.00
Item no.06		Providing and laying cement concrete using 20mm and down size granite jelly of ready mixed concrete (RMC) for R.C.C works laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, form works and scaffoldings to withstand pumping of concrete, with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) Ready mixed Cement concrete M-20 (1:1.5:3) for raft foundation, column footing, main and secondary beams.complete as per specifications and as per the directions of the Engineer-in-charge of the work								
		Bottom Raft								
		Maruthi Nagar								
		Main Road								
		RHS								
0	15		Cum	1	15.00	0.90	0.15	2.03		
15	18.3		Cum	1	3.30	0.90	0.15	0.45	2.48	
18.3	27.3	Old Culvert								

Executive Engineer

RUDRAPRASAD CONSULTANTS BANGALORE

30/12

Assistant Executive Engineer
R.R. Sub-division,
KRIDL, BBMP, Bangalore

Assistant Executive Engineer
BBMP, Bangalore

Contactor PMC Assistant Engineer Assistant Executive Engineer

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate in RS.	Amount in RS.
27.3	42.3		Cum	1	15.00	0.90	0.15	2.03		
42.3	58.9		Cum	1	16.60	0.90	0.15	2.24		
58.9	66.5	Old Culvert			0.00					
66.5	81.5		Cum	1	15.00	0.90	0.15	2.03		
81.5	97.5		Cum	1	16.00	0.90	0.15	2.16		
97.5	99.7	No Work			0.00					
99.7	106.8	Old Culvert								
106.8	127.5		Cum	1	20.70	0.90	0.15	2.79		
127.5	139.2		Cum	1	11.70	0.90	0.15	1.58		
139.2	147.2	Old Culvert			0.00					
147.2	165		Cum	1	17.80	0.90	0.15	2.40		
165	179		Cum	1	14.00	0.90	0.15	1.89		
179	187	Old Culvert			0.00					
187	202		Cum	1	15.00	0.90	0.15	2.03		
202	210		Cum	1	8.00	0.90	0.15	1.08		
210	225		Cum	1	15.00	0.90	0.15	2.03		
225	240		Cum	1	15.00	0.90	0.15	2.03		
240	255		Cum	1	15.00	0.90	0.15	2.03		
255	270		Cum	1	15.00	0.90	0.15	2.03		
270	285.7		Cum	1	15.70	0.90	0.15	2.12	30.44	
		Hebbala Sarovara Layout								
		Main Road (1st main Amco Layout)								
		LHS								
0	30		Cum	1	30.00	0.90	0.15	4.05		
30	60		Cum	1	30.00	0.90	0.15	4.05		
60	90		Cum	1	30.00	0.90	0.15	4.05		
90	120		Cum	1	30.00	0.90	0.15	4.05		
120	150		Cum	1	30.00	0.90	0.15	4.05		
150	180		Cum	1	30.00	0.90	0.15	4.05	24.30	
		Side Wall								
		Maruthi Nagar								
		Main Road								
		RHS								
0	15		Cum	2	15.00	0.15	0.65	2.93		
15	18.3		Cum	2	3.30	0.15	0.65	0.64		
18.3	27.3	Old Culvert								
27.3	42.3		Cum	2	15.00	0.15	0.80	3.60		
42.3	58.9		Cum	2	16.60	0.15	0.80	3.98		
58.9	66.5	Old Culvert								
66.5	81.5		Cum	2	15.00	0.15	0.70	3.15		
81.5	97.5		Cum	2	16.00	0.15	0.70	3.36		
97.5	99.7	No Work			0.00	0.15	0.70	0.00	17.66	

Executive Engineer

Assistant Executive Engineer Kodigehalli Sub Division BBMP, Bangalore

Executive Engineer

Assistant Executive Engineer Kodigehalli Sub Division BBMP, Bangalore

Executive Engineer

Assistant Executive Engineer Kodigehalli Sub Division BBMP, Bangalore

PRAPRASADI CONSULTANTS BANGALORE

Assistant Executive Engineer, R.R. Nagar, Sub-division, KRIDL, BBMP, Bangalore

Contactor PMC Assistant Engineer Assistant Executive Engineer

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity		Amount in RS.
99.7	106.8	Old Culvert								
106.8	127.5		Cum	2	20.70	0.15	0.90	5.59		
127.5	139.2		Cum	2	11.70	0.15	0.80	2.81		
139.2	147.2	Old Culvert			0.00					
147.2	165		Cum	2	17.80	0.15	0.90	4.81		
165	179		Cum	2	14.00	0.15	0.95	3.99		
179	187	Old Culvert			0.00					
187	202		Cum	2	15.00	0.15	0.90	4.05		
202	210		Cum	2	8.00	0.15	0.90	2.16		
210	225		Cum	2	15.00	0.15	0.95	4.28		
225	240		Cum	2	15.00	0.15	0.95	4.28		
240	255		Cum	2	15.00	0.15	0.95	4.28		
255	270		Cum	2	15.00	0.15	0.95	4.28		
270	285.7		Cum	2	15.70	0.15	0.95	4.47		
		Hebbala Sarovara Layout								
		Main Road (1st main Amco Layout)								
		LHS								
0	30		Cum	2	30.00	0.15	0.90	8.10		
30	60		Cum	2	30.00	0.15	0.95	8.55		
60	90		Cum	2	30.00	0.15	0.95	8.55		
90	120		Cum	2	30.00	0.15	1.00	9.00		
120	150		Cum	2	30.00	0.15	1.05	9.45		
150	180		Cum	2	30.00	0.15	1.05	9.45	98.08	
								TOTAL	172.95	
								Quantity Limited To	172.84	5770.64	997398.00
Item no.07		Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,complete as per specifications and as per the directions of the Engineer-in-charge of the work.								
		Maruthi Nagar								
		Main Road								
		RHS								
0	15		Sqm	1	15.00	0.90		13.50		
15	18.3		Sqm	1	3.30	0.90		2.97		
18.3	27.3	Old Culvert			9.00					
27.3	43.7		Sqm	1	16.40	0.90		14.76		
43.7	47.3	Bs Slab	Sqm	1	3.60	0.00		0.00		
47.3	58.3		Sqm	1	11.00	0.90		9.90		
58.3	58.9	Bs Slab	Sqm	1	0.60	0.00		0.00		
58.9	66.5	Old Culvert	Sqm	1	7.60	0.00		0.00		
66.5	84.4	Bs Slab	Sqm	1	17.90	0.00		0.00		
84.4	97.5		Sqm	1	13.10	0.90		11.79	52.92	

Executive Engineer
Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

PRASAD CONSULTANTS BANGALORE

Assistant Executive Engineer, R.R. Contactor Sub-division, KRIDL, BBMP, Bangalore

PMC

Assistant Engineer

Assistant Executive Engineer
BBMP, Bangalore

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate in RS.	Amount in RS.
97.5	99.7	No Work	Sqm	1	2.20	0.00		0.00		
99.7	106.8	Old Culvert	Sqm	1	7.10	0.00		0.00		
106.8	127.5		Sqm	1	20.70	0.90		18.63		
127.5	128.8	Bs Slab	Sqm	1	1.30	0.00		0.00		
128.8	139.2		Sqm	1	10.40	0.90		9.36		
139.2	147.2	Old Culvert								
147.2	147.5		Sqm	1	0.30	0.90		0.27		
147.5	165		Sqm	1	17.50	0.90		15.75		
165	179		Sqm	1	14.00	0.90		12.60		
179	187	Old Culvert								
187	202		Sqm	1	15.00	0.90		13.50		
202	210		Sqm	1	8.00	0.90		7.20		
210	225		Sqm	1	15.00	0.90		13.50		
225	240		Sqm	1	15.00	0.90		13.50		
240	255		Sqm	1	15.00	0.90		13.50		
255	270		Sqm	1	15.00	0.90		13.50		
270	285.7		Sqm	1	15.70	0.90		14.13		
		Hebbala Sarovara Layout								
		Main Road (1st main Amco Layout)								
		LHS								
0	30		Sqm	1	30.00	0.90		27.00		
30	60		Sqm	1	30.00	0.90		27.00		
60	90		Sqm	1	30.00	0.90		27.00		
90	120		Sqm	1	30.00	0.90		27.00		
120	150		Sqm	1	30.00	0.90		27.00		
150	180		Sqm	1	30.00	0.90		27.00		
		Mising Cover Slab	Sqm	44	0.90	0.60		23.76	331.20	
							TOTAL	384.12	2337.00	897689.00
Item no.08		Providing and fixing precast solid cement concrete kerb stones of size 450x200x400 mm made out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting etc., complete as per specifications and as per the directions of the Engineer-in-charge of the work								
		Maruthi Nagar								
		Main Road								
		RHS								
0	15		m	1	15.00			15.00		
15	18.3		m	1	3.30			3.30		
18.3	27.3	Old Culvert								
27.3	42.3		m	1	15.00			15.00		
42.3	58.9		m	1	16.60			16.60		
58.9	66.5	Old Culvert								
66.5	81.5		m	1	15.00			15.00	604.90	

Assistant Executive Engineer, R.R.Nagar, Sub-division, KRIDL, BBMP, Bangalore
Contactor

PRASAD CONSULTANTS BANGALORE
PMC

Assistant Executive Engineer Kodigehalli Sub Division BBMP, Bangalore
Assistant Engineer

Assistant Executive Engineer BBMP, Bangalore
Assistant Executive Engineer

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate in RS.	Amount in RS.
81.5	97.5		m	1	16.00			16.00		
97.5	99.7	No Work	m	0	0.00			0.00		
99.7	106.8	Old Culvert								
106.8	127.5		m	1	20.70			20.70		
127.5	139.2		m	1	11.70			11.70		
139.2	147.2	Old Culvert								
147.2	165		m	1	17.80			17.80		
165	179		m	1	14.00			14.00		
179	187	Old Culvert								
187	202		m	1	15.00			15.00		
202	210		m	1	8.00			8.00		
210	225		m	1	15.00			15.00		
225	240		m	1	15.00			15.00		
240	255		m	1	15.00			15.00		
255	270		m	1	15.00			15.00		
270	285.7		m	1	15.70			15.70		
		Hebbala Sarovara Layout								
		Main Road (1st main Amco Layout)								
		LHS								
0	30		m	1	30.00			30.00		
30	60		m	1	30.00			30.00		
60	90		m	1	30.00			30.00		
90	120		m	1	30.00			30.00		
120	150		m	1	30.00			30.00		
150	180		m	1	30.00			30.00	358.98	
					Sub Total			423.80		
		Number Of Kerb	No		423.8/0.45=942			942.00		
		Mising Kerb Stone	No	5				5.00		
							TOTAL	947.00	477.00	451719.00
Item no.09		Providing and applying ready mix priming coat over concrete / masonry / asbestos cement shet / plastered surfaces including preparing the surfacwe after thoroughly cleaning of oil, grease, dirt and other foreign matter, and sannd papering including cost of materials,complete as per specifications and as per the directions of the Engineer-in-charge of the work								
		Maruthi Nagar								
		Main Road								
		RHS								
0	15		Sqm	1	15.00		0.45	6.75		
15	18.3		Sqm	1	3.30		0.45	1.49		
18.3	27.3	Old Culvert	Sqm	0	0.00		0.45	0.00		
27.3	42.3		Sqm	1	15.00		0.45	6.75		
42.3	58.9		Sqm	1	16.60		0.45	7.47		
58.9	66.5	Old Culvert						22.46		

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

SAPRASAD CONSULTANTS BANGALORE

Contactor

Assistant Executive Engineer, R.R. Nagar, Sub-division, KRIDL, BBMP, Bangalore

PMC

Assistant Engineer

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate in RS.	Amount in RS.
66.5	81.5		Sqm	1	15.00		0.45	6.75		
81.5	97.5		Sqm	1	16.00		0.45	7.20		
97.5	99.7	No Work	Sqm	0	0.00			0.00		
99.7	106.8	Old Culvert								
106.8	127.5		Sqm	1	20.70		0.45	9.32		
127.5	139.2		Sqm	1	11.70		0.45	5.27		
139.2	147.2	Old Culvert								
147.2	165		Sqm	1	17.80		0.45	8.01		
165	179		Sqm	1	14.00		0.45	6.30		
179	187	Old Culvert								
187	202		Sqm	1	15.00		0.45	6.75		
202	210		Sqm	1	8.00		0.45	3.60		
210	225		Sqm	1	15.00		0.45	6.75		
225	240		Sqm	1	15.00		0.45	6.75		
240	255		Sqm	1	15.00		0.45	6.75		
255	270		Sqm	1	15.00		0.45	6.75		
270	285.7		Sqm	1	15.70		0.45	7.07		
		Hebbala Sarovara Layout								
		Main Road (1st main Amco Layout)								
		LHS								
0	30		Sqm	1	30.00		0.45	13.50		
30	60		Sqm	1	30.00		0.45	13.50		
60	90		Sqm	1	30.00		0.45	13.50		
90	120		Sqm	1	30.00		0.45	13.50		
120	150		Sqm	1	30.00		0.45	13.50		
150	180		Sqm	1	30.00		0.45	13.50	168.26	
								TOTAL 190.71	39.22	7480.00
Item no.10		Providing and applying spray painting in two coats (excluding priming coat) over concrete / masonry / asbestos cement sheet / plastered surfadces with flat waall paint of approved brand to give even shade after cleaning the surfacew of all dirt, dust and other foreign matter and sand papering including cost of amaterials, labour complete as per specifications and as per the directions of the Engineer-in-charge of the work								
		Maruthi Nagar								
		Main Road								
		RHS								
0	15		Sqm	1	15.00		0.45	6.75		
15	18.3		Sqm	1	3.30		0.45	1.49		
18.3	27.3	Old Culvert								
27.3	42.3		Sqm	1	15.00		0.45	6.75		
42.3	58.9		Sqm	1	16.60		0.45	7.47		
58.9	66.5	Old Culvert								
66.5	81.5		Sqm	1	15.00		0.45	6.75	29.21	

Assistant Executive Engineer, R.R.Nagar, Sub-division, WSDL, BBMP, Bangalore

Contactor

PMC

Assistant Engineer

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Assistant Executive Engineer

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate in RS.	Amount in RS.
81.5	97.5		Sqm	1	16.00		0.45	7.20		
97.5	99.7	No Work	Sqm	0	0.00		0.00	0.00		
99.7	106.8	Old Culvert								
106.8	127.5		Sqm	1	20.70		0.45	9.32		
127.5	139.2		Sqm	1	11.70		0.45	5.27		
139.2	147.2	Old Culvert								
147.2	165		Sqm	1	17.80		0.45	8.01		
165	179		Sqm	1	14.00		0.45	6.30		
179	187	Old Culvert								
187	202		Sqm	1	15.00		0.45	6.75		
202	210		Sqm	1	8.00		0.45	3.60		
210	225		Sqm	1	15.00		0.45	6.75		
225	240		Sqm	1	15.00		0.45	6.75		
240	255		Sqm	1	15.00		0.45	6.75		
255	270		Sqm	1	15.00		0.45	6.75		
270	285.7		Sqm	1	15.70		0.45	7.07		
		Hebbala Sarovara Layout								
		Main Road (1st main Amco Layout)								
		LHS								
0	30		Sqm	1	30.00		0.45	13.50		
30	60		Sqm	1	30.00		0.45	13.50		
60	90		Sqm	1	30.00		0.45	13.50		
90	120		Sqm	1	30.00		0.45	13.50		
120	150		Sqm	1	30.00		0.45	13.50		
150	180		Sqm	1	30.00		0.45	13.50		
							TOTAL	190.71	90.10	17183.00
Item no.11		Lead for Disposal of Debris shall be payable at carriage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km complete as per specifications and as per the directions of the Engineer-in-charge of the work								
			Cum							
		Vide Total executed Quantity from premeasuremet Page no. 9 10						299.86		
							TOTAL	299.86		
							Quantity Limited To	299.29	87.56	26206.00
									SUB TOTAL AMOUNT	4221590.00
									Add KRIDL @ 4%	168863.60
									Add GST @ 12%	506590.80
									TOTAL AMOUNT	4897044.40

Assistant Executive Engineer, R.R. Nagar, Sub-division, KRIDL, BBMP, Bangalore

Contactor

PRASAD CONSULTANTS BANGALORE

PMC

Assistant Engineer

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Assistant Executive Engineer